February 12, 2001, which claims the benefit of the filing date of Serial Nos. 60/181,630, filed on February 10, 2000; 60/186,904, filed on March 3, 2000; and, 60/197,851, filed on April 14, 2000, and is a continuation of Serial No. 09/419,315, filed on October 15, 1999, which claims the benefit of the filing date of Serial Nos. 60/158,700, filed October 8, 1999 and 60/104,612, filed October 16, 1998.—

In the Claims:

Please **cancel** Claims 2, and 4-9 without prejudice or disclaimer as drawn to a non-elected invention.

Please **add** the following new Claims.

10. (New) A method according to claim 3 wherein said synthesizing is done by multiple PCR with pooled oligonucleotides.

11. (New) A method according to claim 10 wherein said pooled oligonucleotides are added in equimolar amounts.

12. (New) A method according to claim 10 wherein said pooled oligonucleotides are added in amounts that correspond to the frequency of the mutation.

13. (New) A method according to Claim 1, wherein said generating step b) comprises a probability distribution of amino acid residues in a plurality of variant positions.

14. (New) A method according to claim 13 wherein at least one of said secondary variants is different from said primary variant sequences.

15. (New) A method according to claims 1 or 13 further comprising synthesizing a plurality of said secondary sequences.

16. (New) A composition comprising a plurality of secondary variant proteins comprising a subset of said secondary library according to claims 1, 10-13.